

**LAW ENGINEERING**

GEOTECHNICAL, ENVIRONMENTAL  
& CONSTRUCTION MATERIALS  
CONSULTANTS

December 9, 1992

Guilford County  
Department of Emergency Services  
P.O. Box 18807  
Greensboro, NC 27419

Attention: Ms. Kelly Gage  
Toxic & Health Hazard Specialist

Subject: Report of Limited Ground-Water Assessment  
Taco Bell Site  
3742 Battleground Avenue  
Greensboro, North Carolina  
Law Engineering Job No. 259-00194-03

Dear Ms. Gage:

At the request of Mr. James Koutris, Construction Manager for Taco Bell Corporation, Law Engineering is submitting this Report of Limited Ground-Water Assessment for the subject site. The purpose of our services was to assess the site for evidence of environmental contamination caused by a former underground storage tank (UST) system. This report includes a description of the site activities, the results obtained, and our conclusions and recommendations.

Please contact us if you have any questions concerning this report.

Sincerely,

LAW ENGINEERING

Scott C. Veenstra  
Project Geologist

James D. Rudden, Jr., P.G.  
Principal Geologist

November 27, 1992



**LAW ENGINEERING**

GEOTECHNICAL, ENVIRONMENTAL  
& CONSTRUCTION MATERIALS  
CONSULTANTS

Taco Bell Corporation  
2303 W. Meadowview Road  
Suite 41  
Greensboro, NC 27407

Attention: Mr. James N. Koutris  
Construction Manager

Subject: Report of Limited Ground-Water Assessment  
Taco Bell Site  
3742 Battleground Avenue  
Greensboro, North Carolina  
Law Engineering Job No. 259-00194-03

Dear Mr. Koutris:

As authorized by your acceptance of our Proposal No. PGB-446E, Law Engineering is pleased to submit this Report of Limited Ground-Water Assessment for the subject site. The purpose of our services was to assess the site for evidence of environmental contamination caused by a former underground storage tank (UST) system. This report includes a description of the site activities, the results obtained, and our conclusions and recommendations.

Law Engineering appreciates the opportunity to serve as your environmental consultant on this project. We will contact you within several days to see if you have any questions concerning this report.

Sincerely,

LAW ENGINEERING

Scott C. Veenstra  
Project Geologist/Engineer

James D. Rudder, Jr., P.G.  
Principal Geologist

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## 1.0 INTRODUCTION

The subject site is located at 3742 Battleground Avenue in Greensboro, North Carolina. Richardson Turner Construction Company (RTC) was previously contracted by Taco Bell to construct a Taco Bell restaurant on the site. During construction of an on-site retention pond three underground storage tanks (USTs) were discovered. These USTs were subsequently removed from their original locations by a subcontractor to RTC.

Taco Bell Corporation retained Barrow Backhoe Company to dispose of the USTs, excavate petroleum hydrocarbon-containing soil associated with the USTs, and temporarily stockpile the excavated soil on site. Taco Bell contracted Law Engineering to monitor the excavation activities, perform soil sampling, and perform a preliminary ground-water assessment (Law Job No. 259-00194-02).

Based on the detected concentrations of benzene in the ground water beneath the site, the Guilford County Department of Emergency Services has requested that Taco Bell conduct additional quarterly sampling of the ground water.

The project information has been provided from discussions between Mr. James Koutris of Taco Bell and Mr. Scott Veenstra and Mr. Brian Maas of Law Engineering.

## 2.0 CONTRACTED SCOPE OF SERVICES

Law Engineering was contracted to complete the following scope of services:

- Drill one soil boring to an approximate depth of 20 feet below grade using an auger drill rig. The boring would be drilled in the vicinity of the former temporary monitoring well MW-1.
- During the drilling of the auger boring soil samples would be collected with decontaminated split-spoon samplers every five feet in the material above the ground-water table (e.g. 3.5 to 5 feet, 8.5 to 10 feet) in general accordance with ASTM D1586.

The soil samples would be screened with an organic vapor analyzer (OVA) and the measurement recorded.

- Install one ground-water monitoring well in the boring described above. The well would be constructed with 2-inch I.D. schedule 40 PVC screen and casing. The screened interval would be constructed of slotted PVC having slot



widths of 0.01 inches. The screened interval would be 15 feet in length and would be installed to intersect the elevation of the ground-water table at the time of drilling.

- Develop, purge and sample the newly-installed well. The ground-water sample collected would be shipped to Law Environmental National Laboratories (LENL) for analysis for benzene, toluene, ethylbenzene, and xylenes (BTEX) using the EPA Method 602.
- Prepare a written report describing our activities, the results obtained, and our conclusions and recommendations.
- Conduct an additional quarterly sample collection from the monitoring well approximately three months after the first sampling event (to be completed in February 1993).
- Prepare a written report for the second quarterly sampling event, describing our activities, the results obtained, and our conclusions and recommendations (to be completed in February 1993).

We implemented the above scope of services on October 27, 1992 based on your written authorization accepting Law Engineering Proposal No. PGB-446E2.

### 3.0 FIELD ACTIVITIES

#### 3.1 Soil Boring and Sampling

Law Engineering personnel drilled one soil boring (MW-1) to a depth of approximately 23.5 feet below grade. The soil boring was drilled using a truck-mounted drilling rig equipped with 6 1/4-inch I.D. hollow stem augers. To prevent cross contamination, the drilling equipment was steam cleaned prior to commencing activities at the drilling location. The split spoon sampler was decontaminated prior to each use utilizing high pressure steam cleaning (using potable water).

The boring was completed to a depth of 23.5 feet below the ground surface. The termination depth of the boring was selected based on consideration of the depth to ground water, as indicated by soil moisture conditions, auger cuttings, observations of water within the borehole, and the objectives stated above in the scope of services.



Soil samples were collected at five-foot intervals starting at a depth of 3.5 feet below the ground surface. The samples were collected using a split-spoon sampler 18 inches long having an inside diameter of 1 3/4-inches. The soil sampling methodology was performed in general accordance with ASTM D-1586. Representative samples were classified in the field by Law Engineering's on-site field personnel. Soil Test Boring Records were completed for the boring and are contained in the Appendix.

Representative portions of each soil sample obtained from the boring were transferred into a new, clean one-quart capacity zip-lock baggy (approximately half full), and the baggy was placed in a warm location. Approximately ten minutes after the time of collection the baggy was opened slightly and the probe of a Century 128 Organic Vapor Analyzer inserted. The baggy was immediately resealed using finger pressure. The meter of the OVA was monitored and the reading recorded. An OVA is useful only as a screening tool in evaluating the absence or presence of volatile organic compounds (VOCs), and should not be relied upon to quantify VOCs in soil samples. The results of the OVA screening did not detect VOCs in the soil samples collected from boring MW-1.

### 3.2 Monitoring Well Installation

After completion of the soil boring, the boring was converted to a monitoring well having a total depth of 21 feet below the ground surface. The well was installed as a Type II ground-water monitoring well constructed with 2-inch I.D. Schedule 40 PVC flush-threaded casing and screen. The PVC screen and casing were lowered through the annulus of the augers to the appropriate depth. A 15-foot slotted well screen with machined 0.010-inch slot widths was installed at the bottom of the well. A threaded bottom plug was placed at the bottom of the screened interval.

A solid section of PVC riser pipe was placed above the screened interval and extended to a point just below grade. The annular space around the well was filled with a washed and graded medium sand to approximately two feet above the screen.

A minimum one-foot thick seal of bentonite pellets was placed immediately above the sand pack. After placement in the well, the bentonite pellets were hydrated by applying approximately ten gallons of potable (tap) water and waiting approximately 30 minutes.

After hydrating the bentonite pellets, a bentonite/neat cement mixture containing approximately four percent bentonite was pumped down the hole to fill the annulus of the boring from the bentonite cap to the ground surface. A flush-mounted steel cover was



installed over the well. The well was equipped with a lockable, water-tight well cap. The general construction details for the well are shown on the Boring Log and Well Installation Diagram in the Appendix. A copy of the monitoring well construction permit issued by the State of North Carolina Division of Environmental Management, Groundwater Section is included in the Appendix.

### 3.3 Monitoring Well Development

A minimum of 24 hours after installation, the well was developed by evacuating approximately five well volumes using a disposable one-liter capacity teflon bailer. The well was developed to achieve two objectives: 1) to remove sand, silt and other fine sediments which may have entered the well during its construction; and 2) to develop the sandpack surrounding the well's screened interval.

During development the pH of the development water from the well was monitored. Development continued until the pH stabilized and the water cleared of fine sediments. The stabilized pH measured was 6.9 standard units.

### 3.4 Monitoring Well Sampling

A minimum of 24 hours after development, the well was purged until the pH stabilized by removing at least five well volumes. Purging was accomplished using the disposable one-liter capacity teflon bailer. Ground-water samples were collected from the well immediately after the well was purged. The pH of the collected ground-water sample was 6.9 standard units.

Immediately after collection, each ground-water sample was transferred from the teflon bailer into three 40 milliliter (ml) clean, glass containers equipped with teflon-lined screw-caps. New disposable vinyl gloves were utilized in the sample transfer. The sample containers were completely filled with sample to eliminate headspace.

After being filled, each sample container was labeled with the job name and number, the time and date of sample collection, the analyses to be performed, and the presence or absence of preservative. The filled sample containers were placed into a new one-quart capacity zip-lock baggy. The baggy containing the filled sample containers was then placed into a cooler containing ice and cooled to approximately 4° Centigrade. The chain of custody was initiated. At the end of each sampling day the cooler containing samples was shipped via overnight express delivery to LENL in Kennesaw, Georgia.



#### 4.0 ANALYTICAL RESULTS

##### 4.1 Results of Analyses of Well Samples

The newly-installed ground-water monitoring well was sampled on November 6, 1992. The samples were analyzed by LENL for BTEX using the EPA Method 602. Table 1 presents a summary of the analytical results. All data results were reported as non-detected for BTEX concentrations.

#### 5.0 QUALITY ASSURANCE/QUALITY CONTROL RESULTS

No duplicate ground-water samples were requested in the contracted scope of services, and none were collected in the field. No trip blanks were analyzed with the collected ground-water sample.

#### 6.0 CONCLUSIONS AND RECOMMENDATIONS

The ground-water sample collected from ground-water monitoring well MW-1 did not contain detectable concentrations of benzene, ethylbenzene, toluene or xylenes in excess of the analytical method practical quantification limits. The analytical method practical quantification limits were one part per billion (ppb) for benzene, ethylbenzene, and toluene and two ppb for xylenes. Based on the analytical results, it does not appear that the former USTs at the Taco Bell location have released petroleum hydrocarbons into the subsurface which have impacted the ground water.

Based on the non-detection of BTEX concentrations in the collected ground-water sample, Law Engineering recommends that the second quarterly sample collection and analysis be implemented to confirm the data obtained during this sampling event.

#### 7.0 QUALIFICATION OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessments and waste management projects of this type. Our evaluation of site conditions has been based on our understanding of the site and project information, and the data obtained from the site assessment activities performed to date at the subject site. The primary objective was to perform sufficient work to determine if ground-water contamination exists at the subject site.



**TABLES**

TABLE 1

VOLATILE COMPOUNDS DETECTED IN GROUND-WATER MONITORING WELLS  
IN PPM

Taco Bell Corporation  
3742 Battleground Avenue  
Greensboro, North Carolina  
Law Engineering Job No. 259-00194-03

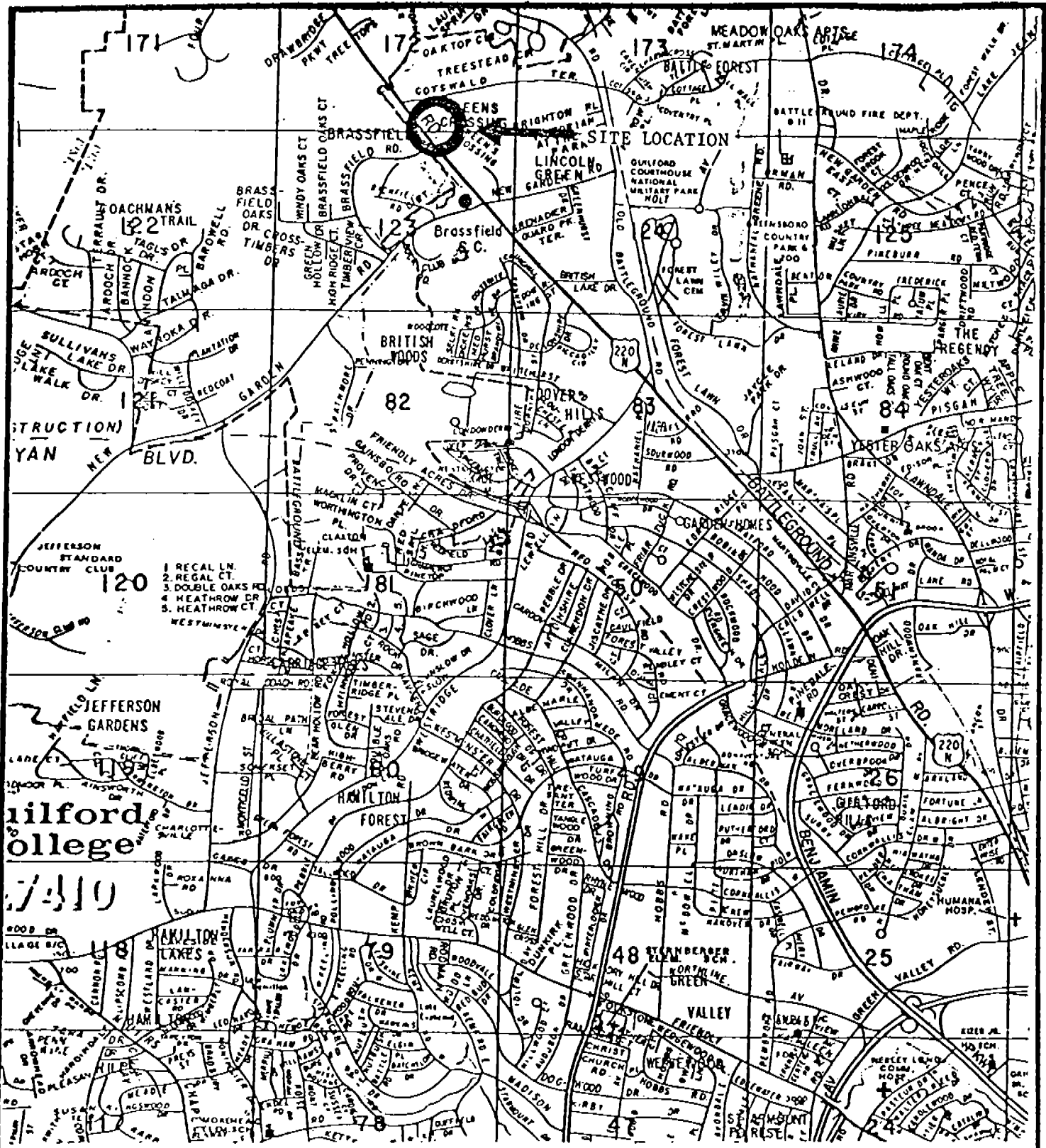
Well No.	Benzene	Ethylbenzene	Toluene	Xylenes	Total BTEX
MW-1	ND	ND	ND	ND	ND

ND = Not Detected

BTEX = Benzene, Toluene, Ethylbenzene, Xylenes

ppm = Parts Per Million

**FIGURES**



1000 0 1 2 3000  
 APPROXIMATE SCALE IN FEET



LAW ENGINEERING  
 GREENSBORO, NORTH CAROLINA

SITE LOCATION  
 TACO BELL  
 GREENSBORO, NORTH CAROLINA

REF: CHAMPION MAPS, DATED 1989

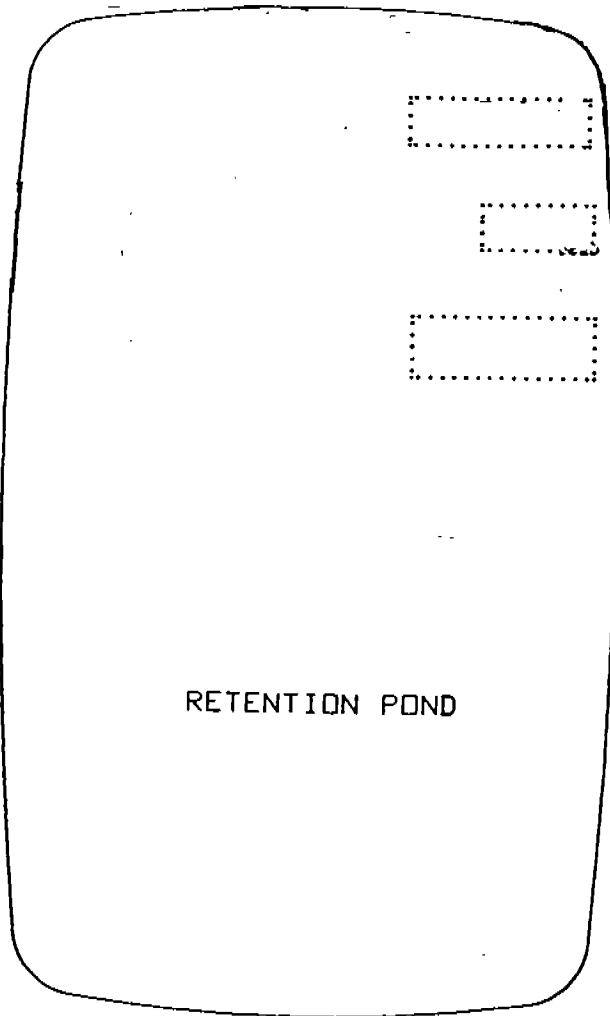
JOB NO. 259-00194-03

FIGURE 1

HANDY PANTRY PARKING LOT

 MW-1

BATTLEGROUND AVENUE



RETENTION POND

NOT TO SCALE

LEGEND



MW-1

MONITORING WELL



FORMER UST LOCATION

REF: FIELD NOTES BY LAV ENGINEERING  
PERSONNEL



LAV ENGINEERING  
GREENSBORO, NORTH CAROLINA

**MONITORING WELL LOCATION**

**TACO BELL**

GREENSBORO, NORTH CAROLINA

JOB NO. 259-00194-03

FIGURE 2

**APPENDIX**

**LABORATORY DATA REPORT**



LAW ENVIRONMENTAL, INC.

NATIONAL LABORATORIES DIVISION  
300 CHASTAIN CENTER BLVD. SUITE 315  
KENNESAW, GEORGIA 30144  
404-426-4309 FAX 426-0243

November 12, 1992

Law Engineering, Inc.  
7347 J. West Friendly Ave.  
Greensboro, NC 27410

Attention: Scott Veenstra

LE Job Number: 259-00194-01

Subject: Chemical analysis of samples received on 11/09/92.

Dear Mr. Veenstra:

Law Environmental National Laboratories has completed its analysis of your samples and reports the results on the following pages. These results related only to the contents of the samples as submitted. This report shall not be reproduced except in full without the approval of Law Environmental National Laboratories.

If there are any questions, please do not hesitate to contact us.

Sincerely,

LAW ENVIRONMENTAL NATL LABS

Linda Harris  
Hydrocarbon Laboratory Supervisor

Attachment: Data Report  
Invoice



LAW ENVIRONMENTAL NATIONAL LABORATORIES  
TEST DATA REPORT

Date 11/14/92

Page 1

--- Project Information ---

Lab Number : 62-5014-01  
Project No. : 259-00194-01  
Project Name : TACO BELL MW

Cust. No. :

Manager: SCOTT VEENSTRA

--- Sample Information ---

Station ID : MW-1  
Matrix : W  
Type : GRAB  
Collector : JRE

Sampled Date/Time : 11/06/92 13:00  
Received Date/Time : 11/09/92 09:15  
Received From/By : JRE/ST  
Chain of Custody : 14807  
Number of Containers : 3

Remarks :

--- Test Data ---

Parameter.....	Method....	Units	PQL.....	Results...	Test Date	Anal
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--- SERIES 15000

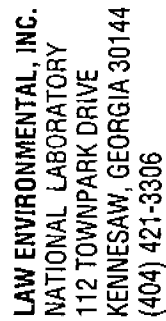
Benzene	EPA 602	ug/l	1.0	ND	11/12/92	DLM
Toluene	EPA 602	ug/l	1.0	ND	11/12/92	DLM
Ethylbenzene	EPA 602	ug/l	1.0	ND	11/12/92	DLM
Xylene, Total	EPA 602	ug/l	2.0	ND	11/12/92	DLM

-- SCREENING FOR BTEX RESULTS --  
SCREENING FOR BTEX

NA 11/10/92 OR

Signed

*Linda Hamlin*



## CHAIN OF CUSTODY RECORD

14807

**SAMPLING INFORMATION**

NAME OF FACILITY: TACO BELL

STREET ADDRESS: BATTLEBORO AVE

CITY / STATE: GREENSBORO NC ZIP:

[illegible]

ORIGINAL AND YELLOW COPIES ACCOMPANY SAMPLE SHIPMENT TO LABORATORY.  
PINK COPY RETAINED BY SAMPLERS. YELLOW COPY RETAINED BY LABORATORY.

REMARKS

WATER - W	SOIL / SEDIMENT - SO	SLUDGE - SL	OTHER - NA
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
10	10	10	10
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93	93	93	93
94	94	94	94
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96	96	96	96
97	97	97	97
98	98	98	98
99	99	99	99
100	100	100	100

STANDARD TAT.

For Law Enforcement National Lab Use Only

Are Custody Seals Present? Yes ☐ No ☒

Are Custody Seals Intact?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>	Inspected By: <input type="checkbox"/>
---------------------------	------------------------------	-----------------------------	------------------------------	----------------------------------------

Date:



LAW ENVIRONMENTAL, INC.  
NATIONAL LABORATORY  
300 CHASTAIN CENTER BLVD.  
SUITE 315  
KENNESAW, GEORGIA 30144  
(404) 426-4309

## LAW ENVIRONMENTAL NATIONAL LABORATORIES

### KENNESAW REQUEST FOR ANALYSIS HYDROCARBON LAB

PROJECT NAME: TACO Bell COC#: \_\_\_\_\_

PROJECT #: 259-00194 TASK #: 01 PROJECT MGR: Scott Veumstra

HYDROCARBON (CIRCLE ANALYSES REQUESTED)

TURNAROUND TIME: STANDARD (1 WEEK) X RUSH \_\_\_\_\_ (INCURS RUSH FEE)  
days

SAMPLE I.D.: MW-1

	Water	Water/Soil
<u>BTEX</u>	<u>602</u>	8020
BTEX + MTBE	602	8020
IPE	602	8020
Petroleum Hydrocarbons, IR - EPA 418.1		
Oil & Grease	9070	9071 (Soil Only)
Polynuclear Aromatic Hydrocarbons (PAH)	610	8100
Petroleum Hydrocarbons, Volatile - CAL-DHS		
Petroleum Hydrocarbons, Semi-Volatile - CAL-DHS		
Petroleum Hydrocarbons, Volatile - EPA 5030/8015M		
Petroleum Hydrocarbons, Volatile - 5030/SF BAY		
Petroleum Hydrocarbons, Semi-Volatile - 3550/SF BAY		
Petroleum Hydrocarbons, GRO - TENN/5030		
Petroleum Hydrocarbons, DRO - TENN		
Petroleum Hydrocarbons, Volatile - IOWA/5030		
Petroleum Hydrocarbons, Semi-Volatile - IOWA		
Petroleum Hydrocarbons, Gas/Diesel - EPA 8015M/VA		
Petroleum Hydrocarbons, IR - WTPH-418.1M/WA		
Petroleum Hydrocarbons, Volatile - WTPH-G/WA		
Petroleum Hydrocarbons, Semi-Volatile - WTPH-D/WA		

FORM COMPLETED BY: [Signature]

DATE: 11-6-92

# SAMPLE RECEIPT AND NON-CONFORMANCE FORM



LENL#: 62-5614-01

DATE: 11/9/92

PROJECT NAME: Taco Bell MW

PROJECT #: 259-00194-01

A: PRELIMINARY EXAMINATION: Date shipment was opened: 11/9/92

1. Did shipment come with a shipping air bill? Y N NA
2. If YES, document carrier and air bill # FX # 4886778702
3. Were custody seals present on samples? Y N -
4. Were custody seals intact? Y N NA
5. Were custody papers filled out properly? Y N -
6. Were custody papers signed? Y N -
7. Are sampling time(s) present? Y N -
8. Are sampling date(s) present? Y N -
9. Type of packing and ice used. blue ice / bubble wrap Y N -

B: LOGIN-IN PHASE Date samples were logged-in: 11/9/92

1. Did all bottles arrive intact? Y N -
2. Did all bottle labels agree with custody papers? Y N -
3. Were proper containers used for requested test? Y N -
4. Were correct preservatives added for requested test? Y N -
5. Was sufficient sample received for requested test? Y N -
6. Were air bubbles present in VOA samples? Y N NA

COMMENTS:

-No Trip Bk. rec'd

Processed By: ST

C: CORRECTIVE ACTION:

1. Client notified verbally Date: \_\_\_\_\_ Time: \_\_\_\_\_
2. Samples processed as received: Y N -

COMMENTS:

SAMPLE CONTROL COORDINATOR  
SAMPLE CONTROL SUPERVISOR

INITIALS

S

DATE

11/9/92

**MONITORING WELL CONSTRUCTION PERMIT**



State of North Carolina  
Department of Environment, Health and Natural Resources  
Winston-Salem Regional Office

James G. Martin, Governor  
William W. Cobey, Jr., Secretary

Margaret Plemmons Foster  
Regional Manager

DIVISION OF ENVIRONMENTAL MANAGEMENT  
GROUNDWATER SECTION

November 3, 1992

Taco Bell Corporation  
2303 W. Meadowview Road  
Suite 41  
Greensboro, NC 27407

SUBJECT: MONITOR WELL CONSTRUCTION  
PERMIT NO. 40-1011-WM-0488  
GUILFORD COUNTY  
FILE NAME: Taco Bell

Dear Sir:

In accordance with your application received October 26, 1992, we are forwarding herewith Monitor Well Construction Permit No. 40-1011-WM-0488 for the construction of one monitor well in the Charlotte Belt Hydrogeologic Unit.

Henceforth, correspondence and data relating to this well shall be designated as specified in the subject heading above.

This Permit will be effective from the date of its issuance and shall be subject to the conditions and limitations as specified therein.

Sincerely,

A handwritten signature in cursive script that reads "Sherri V. Knight".

Sherri V. Knight  
Groundwater Supervisor

LDC/ahl  
Enclosure

cc: Groundwater Section - Central Office  
Guilford County Division of Emergency Management  
WSRO Files  
Law Engineering

NORTH CAROLINA  
ENVIRONMENTAL MANAGEMENT COMMISSION  
DEPARTMENT OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES

PERMIT FOR THE CONSTRUCTION OF  
A MONITOR WELL OR WELL SYSTEM

In accordance with the provisions of Article 7, Chapter 87, North Carolina General Statutes, and other applicable Laws, Rules, and Regulations.

PERMISSION IS HEREBY GRANTED TO

Taco Bell Corporation

---

FOR THE CONSTRUCTION OF ONE MONITOR WELL OR MORE AS NEEDED in the Charlotte Belt Hydrogeologic unit located at 3742 Battleground Avenue, Greensboro, North Carolina in Guilford County in accordance with the application dated October 22, 1992, and in conformity with the specifications and supporting data, all of which are filed with the Department of Environment, Health and Natural Resources and are considered a part of this Permit.

This Permit is for well construction only, and does not waive any provisions or requirements or any other applicable laws or regulations.

Construction of a well under this Permit shall be in compliance with the North Carolina Well Construction Regulations and Standards, and any other laws and regulations pertaining to well construction.

This Permit will be effective from the date of its issuance until the site assessment has been completed, and shall be subject to other specified conditions, limitations or exceptions as follows:

1. Written permission must be obtained from the property owner prior to construction of the well.
2. A permanent identification plate with the date of construction, depth of well, screen interval, depth of grout, drilling contractor, and his registration number shall be attached to the well head or the outer protective steel casing.

3. The well construction completion form and all water quality data are to be submitted to the Central Office of the Groundwater Section P. O. Box 29535, Raleigh, North Carolina 27611.
4. All laboratory analysis of Groundwater samples collected from the permitted monitor well are to be submitted to North Carolina Department of Environment, Health, and Natural Resources, Groundwater Section, P. O. Box 29535, Raleigh, N. C. 27611 with a copy to the North Carolina Department of Environment, Health and Natural Resources, Groundwater Section, 8025 North Point Boulevard, Suite 100, Winston-Salem, N. C. 27106 within 60 days of well completion, and quarterly thereafter.
5. All additional investigative findings in relation to the pollution sources being monitored, as indicated under "Additional Information" of form GW-22M ("Item J" of form GW-22B) of permit application, are to be submitted to North Carolina Department of Environment, Health and Natural Resources, Groundwater Section, P. O. Box 29535, Raleigh, N. C. 27611 with a copy to North Carolina Department of Environment, Health, and Natural Resources, Groundwater Section, 8025 North Point Boulevard, Suite 100, Winston-Salem, N. C. 27106 within 60 days of well completion, and quarterly thereafter.
6. The well shall be afforded a means of protection against vandalism, damage, or unauthorized use.
7. When any monitor well is no longer useful for its intended purpose, it shall be abandoned in compliance with North Carolina Administrative Code 15. 2C.0113 and a well abandonment form sent to the North Carolina Department of Environment, Health, and Natural Resources, Groundwater Section, P. O. Box 29535, Raleigh, N. C. 27611 with a copy to North Carolina Department of Environment, Health and Natural Resources, Groundwater Section, 8025 North Point Boulevard, Suite 100, Winston-Salem, N. C. 27106.



Permit No. 40-1011-WM-0488  
Page three

8. The monitor well shall be constructed in accordance with the Groundwater Section's recommended construction details as outlined in attachment #1.
9. A county monitor well construction permit shall be required by the county health departments where applicable. In Forsyth County, contact the Forsyth County Health Department, Division of Environmental Health, P.O. Box 686, Winston-Salem, NC 27102-0686.
10. If additional monitor wells, not shown on the location diagram, need to be constructed, a map showing the proposed location shall be submitted to the Winston-Salem Regional Office, 8025 North Point Blvd., Suite 100, Winston-Salem, NC 27106.

Permit issued this the 3rd day of November 1992

FOR THE NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION

Larry D. Coble  
Larry D. Coble, Regional Supervisor  
Division of Environmental Management

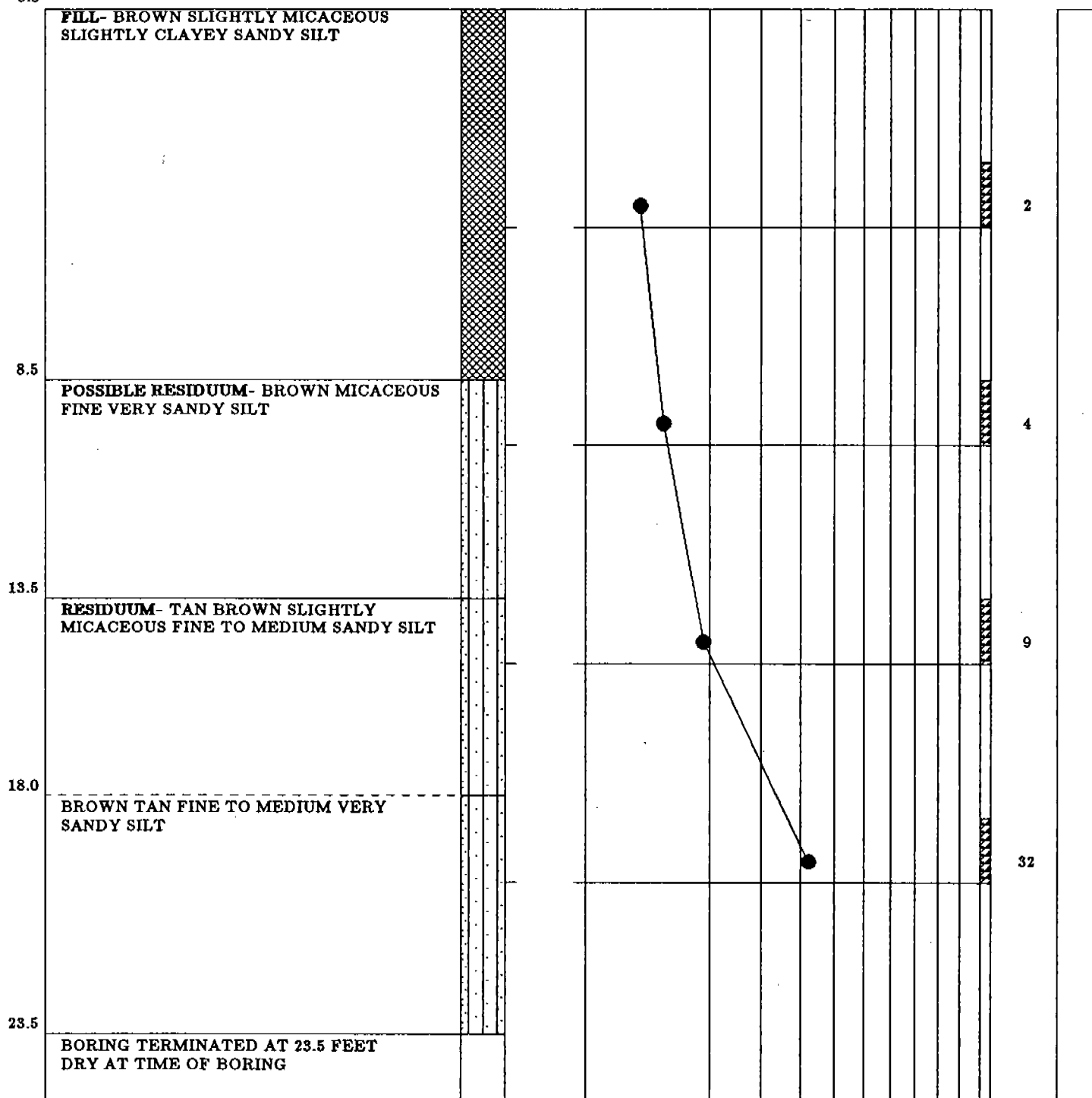
By Authority of the Environmental Management Commission

Permit No. 40-1011-WM-0488

**SOIL TEST BORING LOG  
AND  
MONITORING WELL COMPLETION DIAGRAM**

DEPTH (FT.)      DESCRIPTION      ELEVATION (FT.)      ● PENETRATION - BLOWS/FOOT

0.0      0      10      20      30      40      60      80      100



REMARKS:

SEE KEY SHEET FOR EXPLANATION OF SYMBOLS AND ABBREVIATIONS USED ABOVE

### TEST BORING RECORD

BORING NUMBER B-1  
 DATE DRILLED October 27, 1992  
 PROJECT NUMBER 259-00194-01  
 PROJECT TACO BELL  
 PAGE 1 OF 1

 LAW ENGINEERING

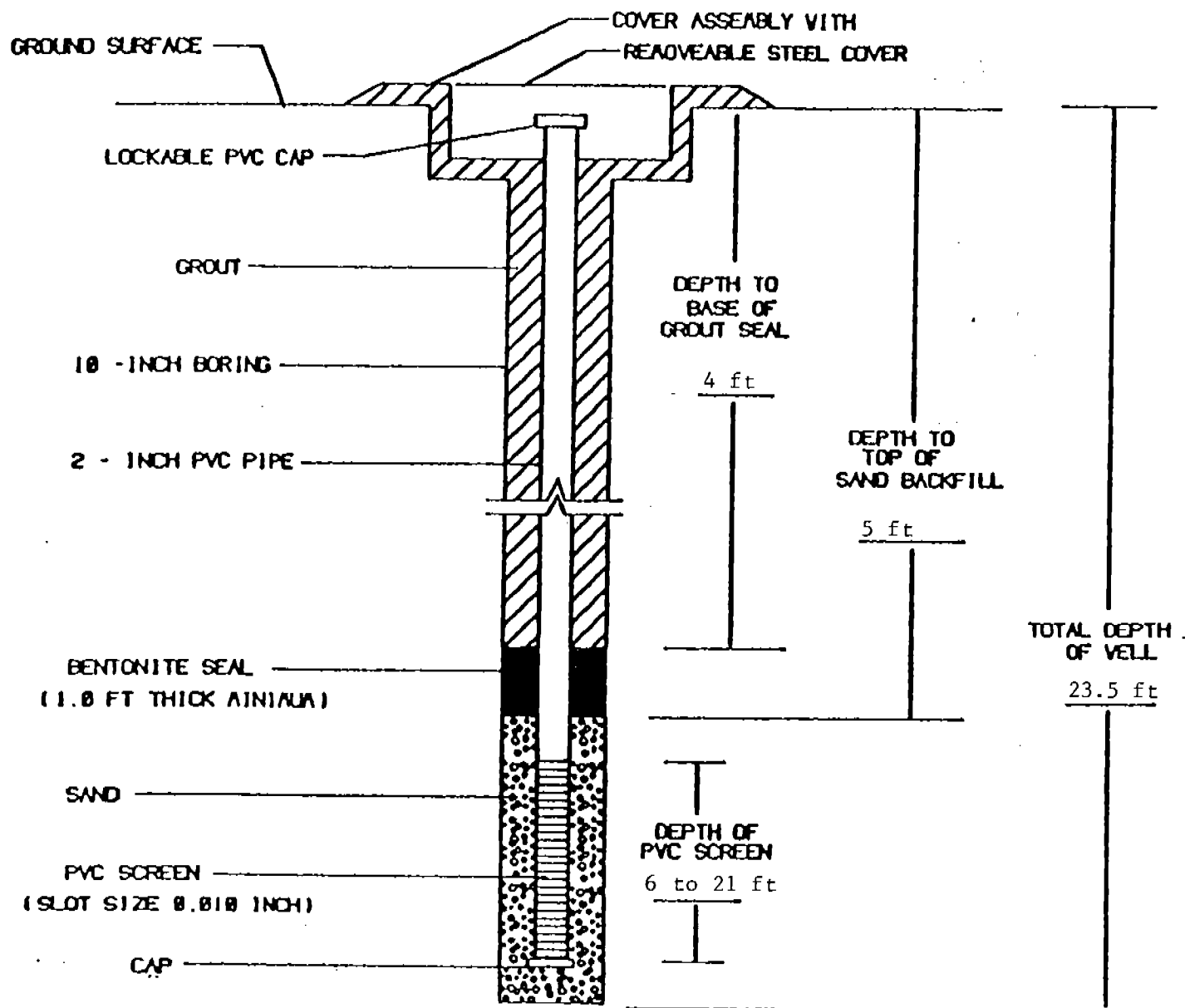
# GROUND-WATER MONITORING WELL INSTALLATION RECORD

JOB NAME Taco Bell JOB NUMBER 259-00194-03

WELL NUMBER MW-1 GROUND SURFACE ELEVATION \_\_\_\_\_

LOCATION See Well Location Figure

INSTALLATION DATE October 27, 1992



NOTE: ALL PVC PIPE JOINTS  
HAVE SCREW CONNECTORS